

# AN OPTICAL-PATH APPARATUS OF TWO-LENS AND MULTI-REFLECTIONAN

## ABSTRACT

An optical-path apparatus of two-lens and multi-reflection consists of a  
5 light source element, a reflection element, a camera lens and a charge  
coupling device element. The light source element supplies the "light"  
during scanning. The reflection element includes a first reflection mirror  
and a second reflection mirror. An appropriate management between the  
corresponding angles of two mirrors makes that the optic-path of "light" can  
10 be reflected twice or more between them. The first characteristic of this  
invention is a transparent first transparent window which is formed on the  
second mirror and is positioned between the original paper and the light  
source element. The second characteristic is a reflection area for reflecting  
the "light"; i.e. from the original paper, the reflected "light" passes through  
15 the first transparent window, and projects to the second lens and reflects  
back onto the reflection area on the first lens.